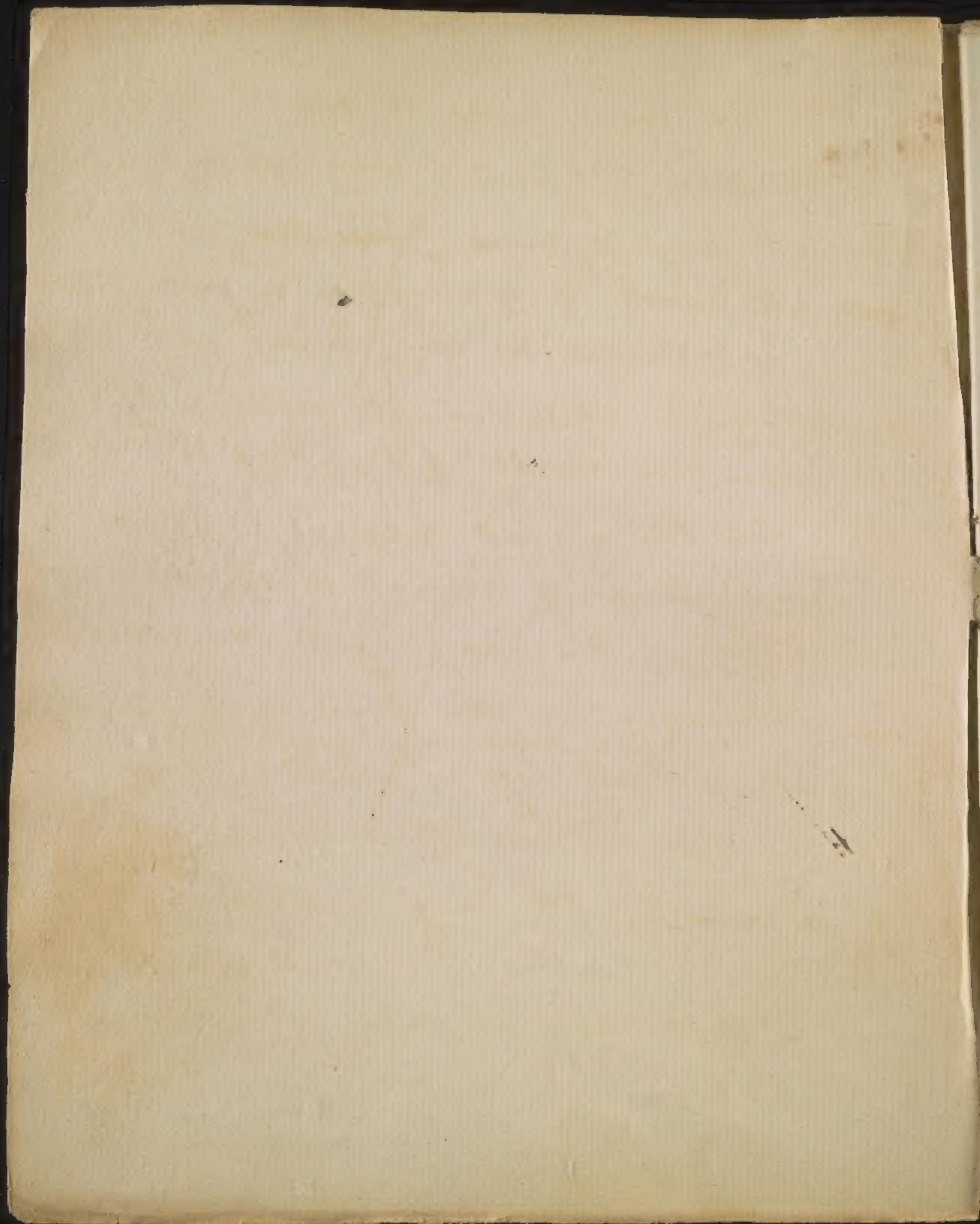


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of the Diseases & Disorders of the
Urinary Organs continued.



21
we come now to an important
& difficult subject - viz: the diseases of
the urinary organs. ~~But~~ ^{now} I shall
~~not~~ attempt to give you a theory ^{of}
them, and afterwards lay before you the
result of the experience & reading of my
life upon the mode of treating them.

As the most frequent cause of
the suppression of Urine, or of pain &
difficulty in discharging it, arises from
^{sand} ~~of~~ calculi in the forms of gravel,
or ^{in the different urinary organs,} ~~stone~~ I shall begin with a few re-
marks upon this generation.

1. ~~There is~~ In the original composition
of animal matter there is a portion of
that substance we call Calculus. It
is the predominance or separation of
this substance which constitutes it.

was ascribed to their scanty diet. This
fact suggests an important remedy for
Obstructions of all kinds in every part
of the body, and that is Abstinence ^{from}
-Dining upon famine. The I ~~have said~~ ^{propose}
the the lymphatics in our physiology
to Swine which feed upon the filth of
our streets. ~~The~~ I have said that the
Lymphatics become hungry in famine.
- ~~By some Abstinence it is thought we~~
see this in Dropsies, & in fevers in w:
they absorb water & fat. By the same
means - may they not be let loose
upon ^{all} other matters in the body that are
redundant in quantity or of an offensive
quality? I have often seen tumors,
subside & disappear ~~of~~ During a Chronic
fever. Even Bubo has thus ^{been} ~~was~~ ^{over}

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called the Calculous Diathesis.

2 This diathesis prevails throughout nearly every part of animated nature, not only ⁱⁿ the human species, but ^{among} horses, cattle, sheep, hogs - dogs - cats & many other animals. They suffer less from ~~these~~ ^{calculi} than men when they exist in their bladders from the horizontal posture of ^{the} bodies. I once saw a stone ^{which} ~~weighed~~ was as large as a $\frac{1}{2}$ shot, cut out of the bladder of a mare 18 years old, that was diseased from it but three days before she died, & I have heard of a stone of $\frac{1}{2}$ 22 4 penny w^t taken from a horse that was diseased but one night before his death.

3 Some nations are more affected with Calculus than others, - it is most common in Britain - Holland & France. It is a rare complaint in Switzerland - Saxony Japan & India. Haller.

+ moreley's fact of a British Officer.

& more than running water. Bruce says it is unknown near the Nile, but very common at a distance from it, where the inhabitants drink well water.

= from our light. In ~~an~~ advising for Abstinence for the removal of Obstructions, it will be necessary only to abstract nourishment from the body. The ~~of~~ tone of the stomach & bowels & nervous system may still be kept up by good a little ^{substituted} diet & by tonic medicines. The Lymphatics are too ^{to blunt their appetites by} ~~weak~~ & ~~glandular~~ ^{glandular} ~~feeding~~ ^{feeding} upon either themselves ~~or~~

Some waters are more disposed to
 produce it than others - Those which deposit
 the most earth are most disposed to
 produce it. To this ~~Dr. Haller~~ ^{there are two} ~~exceptions~~ ^{Dr. Haller says for} ~~the water at Göttingen~~ ^{the water at Göttingen} ~~is very apt to deposit Calcareous matter~~ ^{in either of those places as a disease.}
~~but yet Calculus is rarely known there.~~ ^{in S. Carolina}
~~The same thing occurs in Göttingen & yet the~~ ^{as a disease.} The ill effects of it ^{are pro-}
~~are in some measure obviated by the heat of the climate~~
^{which acts in preventing it or it does the}
^{It is hardly known in} Gout by well water certainly produces it

Calculus appears not only in the
 kidneys, but in the ureters & bladder, but in
 all the viscera, especially the lungs - the
 joints - the bones - the arteries, ^{the uterus - prostate gland -} but all
 the latter in the blood - in the tears - in
 the saliva - in the wax of the ear, in
 the semen, & even in the discharges by the
 pores of the skin.

7 V It is a more common Disease in
early than in middle life, or in old
Age. Out of About 1600 ~~pa~~ patients
that were admitted into the hospital
a lunatic, 558 of them were between
6 & 10 years of Age. The greatest number
were but 6 years old viz: 147.

+ 9 It is an hereditary Disease. I assisted Dr
Physick in cutting a young man for the stone
Wm Brown - whose grandfather - granduncle &
uncle had all been afflicted with gravel or
stone. His father lately.

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Women are less subject to calculus
in the bladder, than men from the
more easy passage of ~~from~~ the nuclei
which produce it out of the bladder
thru their shorter urethra. from back

~~who~~
~~the bladder and old people are~~

Some drinks are said to produce it more
than others. Malt liquors have been
blamed for this purpose - But Dr Haller
denies it, and says out of nearly 300
bodies of Beer drinkers which he dissected

he found ~~but~~ ^{only} ~~two~~ ^{two} of
~~them~~ ^{which} ~~produced~~ ^{produced} it,
~~by which~~ ^{by which} ~~the~~ ^{the} ~~drinks~~ ^{drinks} ~~which~~ ^{which} ~~are~~ ^{are} ~~more~~ ^{more} ~~likely~~ ^{likely} ~~to~~ ^{to} ~~produce~~ ^{produce} ~~it~~ ^{it}
~~but~~ ^{but} ~~from~~ ^{from} ~~the~~ ^{the} ~~acid~~ ^{acid} ~~in~~ ⁱⁿ ~~being~~ ^{being} ~~more~~ ^{more} ~~easily~~ ^{easily} ~~evolved~~ ^{evolved}
~~and~~ ^{and} ~~certainly~~ ^{certainly} ~~pre-disposed~~ ^{pre-disposed} ~~to~~ ^{to} ~~it~~ ^{it}

~~It appears first in the kidneys & bladder~~
~~than in~~ ^{than in} ~~malt liquors~~ ^{malt liquors} ~~of a strong body~~ ^{of a strong body} ~~+~~ ⁺
~~to occur~~ ^{to occur} ~~but~~ ^{but} ~~not~~ ^{not} ~~here~~ ^{here} ~~especially~~ ^{especially} ~~on~~ ^{on}

~~the back tends to produce this~~
~~Having thus mentioned its predisposing~~

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✓ I do not say a Cylindrus cannot be
formed without a nucleus. I believe it
may, but it is most frequently produced
from one, and when formed -

~~mean, I shall now enumerate it,~~
 The ~~remote~~ ^{of this disease,} causes, ~~these are~~
 1 particles of the blood - such as ^{its} Lymph,
 or red particles 2 pus 3 mucous & tumors
 or extraneous matters in the bladder -
 5 and an abrasion of the mucous of the
bladder. The ~~These~~ ^{are at most} former ~~are the most~~
 frequently. ~~They~~ They are excited by violent
 exercise especially hard riding, & contusions
 upon the region of the kidneys. ~~But~~ ^{are common} ~~more~~
 from which affects the kidneys sometimes
 promotes the effusion of the above ^{substances} ~~mucous~~
~~standing long~~ by wearing
 the kidneys disposed to these effusions,
 and hence the nobility who serve the
^{former} Kings of Spain by standing many hours
 in his presence, are often affected by
 Calculus.

~~The nucleus or basis of Calculus~~

leather
+ Sir Isaac's Chair was eroded by the
resimony of his urine which distilled upon
it without his being able to prevent it. It
was a very common disease in the 17th century (a)

+ Dr. Astruc a Shinnies prostate gland to
retaining urine in the struts of London - when
he grew old, - had been coming on 6 years.

V Vanowickers relates the case of a
man who by lying on his back for
a few weeks in consequence of break-
-ing his thigh, had a stone formed
in his kidneys.

(a) In England - ~~particularly among~~ a period of the greatest
~~the clergy~~ intellectual and moral glory of that
country. In reading the lives of the 22,000
ejected ministers in the Reign of Charles II. it
appears ^{yearly} that $\frac{1}{3}$ of them were afflicted =

— with gravel or stone induced by their sedantary
and studious lives. —

Old people, children ¹⁷ ~~not~~ ^{probably} owe
the ~~discharge~~ ^{latter} to the same cause, The ~~former~~
lie chiefly on their backs. It appears
in them ^{even} under a year old - One case
is related of its being congenial.

3 The partial, or imperfect discharge
of the Urine in a lying posture - whereby
a quantity of the Urine is left behind,
and thus by becoming more ^{disorganized,} ~~acid~~
deposits its stony matter upon a sur-
-face if any exist in the bladder. Old
Mr Fisher's case of Virginia: The imperfect
discharge of the Urine in ^{in an upright posture} Old people from
the weakness of the Accelerators Urine,
probably ~~be~~ produces the same effect. -
Gravel ^{or} Stone thus formed produces diff:
Symptoms as it appears in the kidneys,
Ureters - or Bladder.

In the kidneys - pain on One or both

As to this symptom there are sometimes exceptions.
The itching is sometimes induced by diseases of ^{the} neck of
the bladder and even of the Rectum as well in 1806
as by ~~gross~~ a stone.

V I prescribed for a ~~woman~~ lady last
summer ~~who~~ with this disease who
told me her mother had had been afflicted
it, & that such was the acuteness of
it, in a fit of it, that ~~the most exquisite~~
~~paroxysm~~ of it, that ~~the pain was~~
pain was excited only by a person
walking gently across the floor of her
bed room.

+ ~~That~~ A disease that is a ~~leucorrhoea~~ of
the prostate gland sometimes counterfeits
the presence of a stone in the bladder.
It is known 1 by pain in discharging
2 the absence of bloody urine. 3 no
enlargement of the gland. 4 no and general bad
pain in riding. 5 no and general bad
health. To each of these signs there are
occasional exceptions. as riding from or
zones.

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sides of the lumbar region - sickness, or
~~vomiting~~ vomiting - Colic - a pain along
the thigh - & a retraction of the testicle in males
on the side of the affected kidney -
discharge of turbid - high coloured, or bloody

Urine - or of a large quantity of pale
Urine. There are cases however in which it produces
no pain; but a constant sickness or vomiting.

In the ~~the~~ Ureters - it produces nearly
the same symptoms, but with ^{more} ~~less~~
- exquisite pain.

In the Bladder, it produces a frequent
desire to make water - Urine mixed w:
^{more than blood -} mucus, & itching of the ^{glands (a)} penis. - When
the stones are small they are sometimes
discharged, with great pain, - when large,
they bring on Ulcers - Schirrus - ~~or~~ Cancer -
- Cancer - Death. +

The pain from gravel & stone is preeminent
over all other pain in intensity. The whole
system for agonizes in it. ✓

[Many experiments have been

[Faint handwritten text visible on the right edge of the page, including words like "Ca", "S", "C", "G", "t", "B", "de", "in", "in", "no", "no", "in", "M", "a", "E"]

I made to ascertain the nature of the stone.
 I shall read to you the result of Dr Black's
 inquiries ~~taken~~ upon this Subject. ~~taken~~
~~from his mathematics~~ "The matter of ~~Calculus~~
 Calculus, has been considered by some as
 similar to gypseous bodies. - Others have
 compared them to the ~~evaporated~~ ^{water} calcareous
 Incrustations which some mineral ~~bod~~
 leave upon vegetables, and other bodies. Others
 have supposed the Calculus a sort of Tartar
 from wine. But it is a substance totally
 different from ^{all} these. It is not soluble
 in acids, nor water, like Tartar, and as
 it dissolves in the volatile Alkali, it is diffe-
 rent from the calcareous Earths or Gyp-
 sum, neither of which can be dissolved
 in this substance. It effervesces with
 the vitrous Acid, but it is not attended w:
 a loss of weight. ^{This effervescence} It proceeds from an
 inflamm^{ble} matter present, and is

[# They have been divided 1 into such as are composed of mixed & those of ammonia. These are soluble in a solution of fixed alkaline salts. 2 Phosphates of lime - 3rd of magnesia & 4th of ammonia. These may be fixed by a blow pipe & dissolved in muriatic acid.

3 Oxalate of lime. These are insoluble in Alkalies, but liquify slowly in muriatic acid. I see below 4 Phosphates of lime. These are soluble in muriatic acid.

[V Dr Black's Oss^a of human Calicles. possibly in not containing any of the Carbonic Acid. # see above.

Of the specific gravity of ~~various~~ Calicles varies according to Linnæus from 1213, to 1976. ^{Trigon} Some late experiments ~~show these to consist~~ ^{appear to consist} the different kinds afford. 1 this acid. 2 the phosphate of ammonia. 3 the phosphate of lime - of magnesia. and ammonia - 4 the oxalate of lime - 5 carbonate of lime. 6 filix, & materia animalis. This O

[I. 5th lime 45 parts. Carbonic Acid 37. Animal matter & water 18 parts making in all 100. These are soluble in muriatic acid. -

more similar to the effervescence of
 Metals with that Acid, than its effervescence
 with the Calcareous earths, & when
 set on fire with close vessels, it gives
 out a quantity of an aërial elastic
 fluid; ~~the~~ I suspect it will be mostly
 found to be an inflammable matter;
 that is - an animal concretion which
 has the same principles as all animal
 substances, only that these are united
 in a different manner. The earth is
 the same as that of the Bones, which
 is different from the Calcareous earth,
 in not affording a lime, and having less
 attraction for Acid, and little or none
 for the Carbonic Acid."]

[Dr Scheele's experiments have discovered
 an Acid to be present in human calculus,
 which he supposes to be its basis. It has
 been called the lithic Acid & Dr Jacob confirms

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Symptoms are felt by V. By this
 remedy a Mr Lane of this city lived to
 be near 100 afflicted for 40 or 50 years
 with Calculus in his kidneys. Dr
 Haller relates a similar instance of the
 efficacy of early V. in his Biblioth.
 I have used it with great advantage in a great
 number of cases. After the fist is formed the
 in this city in the former state of his disease.
 Remedies are 1. Copious V. regulated by
 2. Opium - Col. Martin
 the pain & spasm. 3. Injections - these
 discharged and act on the part affected like a bath
 thro' the medium of the Colon. 4. Lenient
 purges - particularly Castor Oil. 5. Lig?
 demulcent drinks. 6. An
 Landanum 7. Warm Bath. 8. When the
 Union to pubis or perineum. This is most useful in
 discharge of water is obstructed from the
 Aged.
 bladder, it should be drawn off by a catheter.

To obviate a return of paroxysms of
 this disease, the following remedies have
 been found useful.

1. Certain medicines said to be

+ Lord Walpole took ℥i of Soap & ℥ij of lime water for 8 years and was relieved by them of the stone. His health was improved by the habitual use of these remedies. It is remarkable a Calculus is more ~~diff~~ soluble out of the body in the Urine of a person who has been using lime water than in common Urine.

✓ ~~is~~ a paragon of the gravel. By thus obviating debility and disease, the kidneys & bladder after a while lose their sensibility to the stimulus of gravel, and stone, and hence many persons carry Calculus through life in their kidneys & bladder without pain, or any other sign of disease. = 101

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Antilithic, such as the Carotic Alkali, the
water impregnated with Carbonic acid gas, the
Citric acid, Lime water & Soap - also certain
vegetable matters particularly the Uva Ursi,
and the wild carrot seed tea⁺. These substances
have been supposed to dissolve the stone in
the Urinary Organs, but in any disposition
Soundings prove this not to be the case. The
experiments of D. Lempriere prove that the Calculus
is but little changed out of the body by any of the
above substances in a simple state, and not
at all when ~~even~~ diluted with Urine. The
Alkaline salt, Lime water & Soap act by neutralizing
the Acid of the stomach, & thus
perhaps prevent the increase of Calculus. The
Acids and ~~very~~ Uva Ursi act as tonics, and
thus obviate the debility which invites to mor-
bid excitement, or that pain, sickness and
fever which constitute ✓

